

NISQUALLY RIVER BASIN

1

12085500 LA GRANDE RESERVOIR AT LA GRANDE, WA

LOCATION.--Lat 46°49'23", long 122°18'13", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.33, T.16 N., R.4 E., Thurston County, Hydrologic Unit 17110015, at left end of gate control structure, 1.1 mi southeast of La Grande, 1.7 mi downstream from Alder Dam, and at mile 42.5.

DRAINAGE AREA.--289 mi².

PERIOD OF RECORD.--January 1945 to current year. January 1945 to September 1951 included in combined adjustment to monthly flow of Nisqually River at La Grande. Monthend contents January 1945 to September 1950, published in WSP 1316.

GAGE.--Water-stage recorder. Datum of gage is 7.61 ft below sea level (levels by City of Tacoma). Prior to June 12, 1947, monthend gage heights furnished by City of Tacoma from temporary gages in pool upstream from dam.

REMARKS.--Reservoir is formed by concrete gravity dam completed in 1944; storage began in February 1945. Useable storage, 1,053 acre-ft between gage heights 910 ft, minimum practical head, and 935 ft, normal reservoir level. Dead storage below gage height 910 ft, 1,629 acre-ft. Figures given herein represent total contents. Water used by Tacoma Public Utilities for power generation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,760 acre-ft May 14, 1950, gage height, 936.4 ft; minimum contents observed since reservoir first filled, 1,370 acre-ft Aug. 24, 1956, gage height, 900.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,689 acre-ft Oct. 14, gage height, 935.13 ft; minimum contents, 1,652 acre-ft Nov. 10, gage height, 910.78 ft.

MONTHEND GAGE HEIGHT AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| Date | Gage height (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|------------------|-----------------------|-------------------------|-----------------------------------|
| Sept. 30..... | 933.92 | 2,623 | -- |
| Oct. 31..... | 930.11 | 2,423 | -200 |
| Nov. 30..... | 933.56 | 2,603 | +180 |
| Dec. 31..... | 933.79 | 2,616 | +13 |
| CAL YR 1999..... | -- | -- | +41 |
| Jan. 31..... | 933.90 | 2,622 | +6 |
| Feb. 29..... | 933.17 | 2,582 | -40 |
| Mar. 31..... | 931.57 | 2,498 | -84 |
| Apr. 30..... | 927.68 | 2,303 | -195 |
| May 31..... | 926.31 | 2,238 | -65 |
| June 30..... | 926.92 | 2,266 | +28 |
| July 31..... | 927.44 | 2,291 | +25 |
| Aug. 31..... | 925.46 | 2,199 | -92 |
| Sept. 30..... | 932.93 | 2,569 | +370 |
| WTR YR 2000..... | -- | -- | -54 |